PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of a new traffic control signal at the intersection of MD 528 (Coastal Hwy) and 67th Street in Ocean City, Maryland. MD 528 is considered to run in a north/south direction.

II. INTERSECTION OPERATION

The intersection is to operate in a NEMA six (6) phase, semi-traffic-actuated mode. There will be an exclusive/permissive left turn phase for both the north and southbound movements of MD 528. The MD 528 through movements will operate concurrently. The 67th Street movements will operate concurrently with an actuated pedestrian movements across the north and south legs of the intersection.

This signal is to be incorporated into the MD 528 traffic signal system. The existing interconnect cable between the 65th and 70th Street's intersections shall be pulled back from 70th Street and run to this new intersection. A new interconnect cable is to be run back up to 70th Street.

An eight phase, full-traffic-actuated, solid state digital controller with intersection monitor and harness, battery back-up, telemetry module, and video detection equipment housed in a base mounted cabinet are to be installed at this location.

EQUIPMENT LIST

A. S.H.A. furnished equipment material.

None

B. Equipment to be furnished and/or installed by the Contractor. All equipment in this list shall have catalog cuts submitted for approval prior to installation.

Quantity	Units	Specification Section	Description	Quantity	Units	Specification Section	Description
Lump Sum	LS	108	Mobilization.	5	EA	811	Handhole.
Lump Sum	LS	104	Maintenance of traffic.	120	LF	810	I-conductor electrical cable (No. 4 A.W.G.) (3 pieces).
7	CY	205	Test Pit Excavation	550	LF	810	2-conductor electrical cable (No. 14 A.W.G.).
1 EA 818	21 ft. steel twin mast arm pole with monocurve 50 ft.	600	LF	810	3-conductor electrical cable (No. 14 A.W.G.).		
			and 60 ft. mast arms.	120	LF	810	5-conductor electrical cable (No. 14 A.W.G.).
1	EA	818	16.5 ft. steel twin mast arm pole with monocurve 50 ft. and 60 ft. mast arms.	1800	LF	810	7-conductor electrical cable (No. 14 A.W.G.).
2	EA	818	10 ft. steelpedestalpole with break away transformer base	1500	LF	810	12-Pair voice grade self supporting telemetry cable (No. 19 A.W.G.)
1	EA	816	Standard S.H.A. traffic signal controller, base mounted	400	LF	804	Bare copper stranded ground wire (No. 6 A.W.G.).
			cabinet, telemetry equipment, and video detection equipment [Note: Controller and cabinet shall be purchased from Econolite and delivered to the S.H.A. signal shop for wiring and testing. Contact Mr. Ed Rodenhizer (410) 787-7650].	20	ŁF	805	2 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
				10	LF	805	3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
4 EA		Video camera detection with cable (per manufacture specification).	25	LF	805	4 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.	
_			(2 - 350 ft., 2 - 200 ft.) for mast arm mounting.	250	LF	805	4 in. polyvinyl chloride [Schedule 80] electrical conduit - slotted in roadway.
8 EA 814		814	12 in., one-way, three section (R,Y,G) adjustable black faced traffic signal head for mast arm mounting and tunnel visors.	12	CY	801	Concrete foundation for traffic signal equipment.
	814	12 in., one-way, five section (R,Y,YA,G,GA) adjustable black faced	5	EA	804	Ground rod -¾in. diameter x 10 ft. length.	
	ΓA	814	traffic signal head for mast arm mounting and tunnel visors.	1	EA	807	Electrical utility service equipment (120/240 V, one phase, three wire system) for a type B-11 overhead electrical service.
2	EA	014	12 in./8 in., one-way, five section (12 in. YA, GA/ 8 in. R,Y,G) adjustable black faced traffic signal head for mast arm mounting and tunnel visors.	1	EA	549	HAPPTPM symbol - white "ONLY".
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2	EA	814	12 in., one-way, two section (symbolic DW, WK) adjustable pedestrian signal head for pole mounting and cut-away visors.	2	EA	549	HAPPTPM symbol - white "Right Arrow".
2	EA	814	12 in., one-way, two section (symbolic DW, WK) adjustable	500	LF	549	5 in. wide thermoplastic pavement marking - white.
			pedestrian signal head for post top mounting and cut-away visors.	300	ŁF	549	5 in. wide thermoplastic pavement marking - yellow.
2	EA	813	36 in. x 42 in. R 10-12 sign for mast arm mounting.	450	LF	549	12 in. wide HAPPTPM - white for crosswalk.
1	EA	813	30 in. x 36 in. R 3-5(R) sign for mast arm mounting.	80	LF	549	24 in. wide HAPPTPM - white for stop line.
2	EA	813	30 in. x 36 in. R 3-14(Mod) sign for mast arm mounting.	2	EA		Cut, clean, cap and regalvanize mast arm.
4	EA	813	16 in. x Var. D-3(1) Dual Faced sign for under mast arm mounting.	300	LF		Remove existing pavement marking by grinding.
2	EA	813	18 in. x 24 in. R 4-7 sign for ground mounting.	200	SF		Remove/Replace sidewalk (may need to include ADA Ramps).
4	EA	817	Pedestrian pushbutton assembly with pushbutton sign.	Lump Sum	LS		Removal/ Trimming of shrubbery.
				Lump Sum	LS		Removal/relocation of overhead interconnect cable.
				Lump Sum	LS		As-built for S.H.A. [on CADD].

CONTACT LIST

The contact persons for District *1 are as follows:

Mr. Gene Cofield Assistant District Engineer - Traffic 410-543-6715

Mr. Bruce Poole Assistant District Engineer - Utility 410-543-6715

Mr. James Wright Assistant District Engineer - Maintenance

410-543-6715 Mr. Richard L. Daff

Mr. Richard L. Daff Chief, Traffic Operations Division 410-787-7630

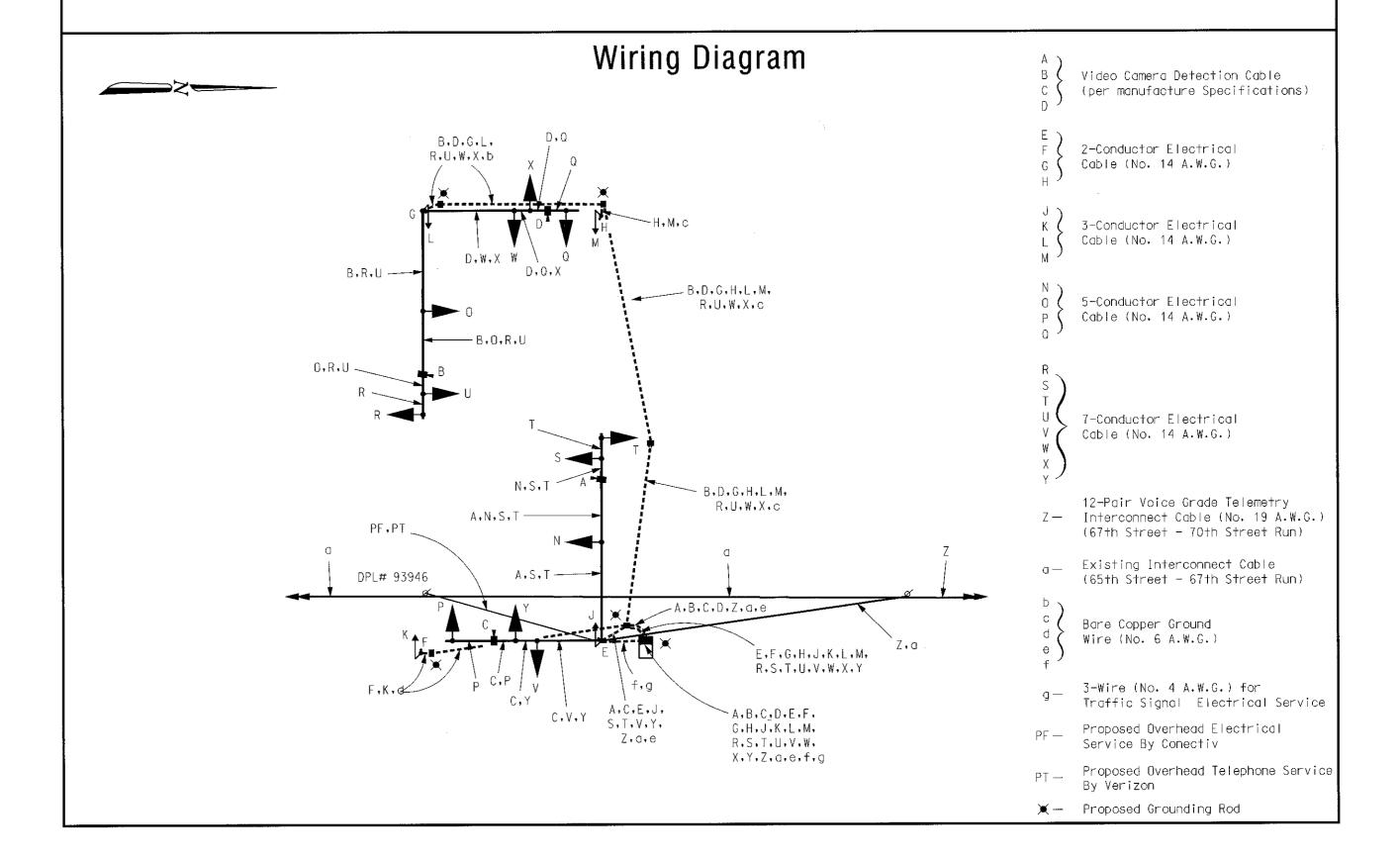
The Power Company Representative is: Conectiv Power Delivery

Chris Smith 410-860-6036

The Verizon Communications Representative is: Hal Curtis 410-224-9500

Phase Chart

Phase 1 & 5	R ⊸ G—	R - G —	R	R ⊸ G—	R -	R	R	R	R	R	R	R	DW	
1 & 5 Change to Phase	1 & 6 or	Phase 2	& 5 or 1	Phase 2 8	& 6	-								√
Phase 1 & 6	G ⊸ G—	G G —	G	R	R	R	R	R	R	R	R	R	DW)
1 Change	G ← Y —	G ← Y—	G	R	R	R	R	R	R	R	R	R	DW	
Phase 2 & 5	R	R	R	G ← G−−	G ⊸ G—	G	R	R	R	R	R	R	DW	—
5 Change	R	R	R	G ← Y—	G ⊸ Y—	G	R	R	R	R	R	R	DW	√
Phase 2 & 6	G	G	G	G	G	G	R	R	R	R	R	R	DW	
2 & 6 Change	Y	Y	Y	Υ	Y	Y	R	R	R	R	R	R	DW	
Phase 4 & 8	R	R	R	R	R	R	G	G	G	G	G	G	DW	+
4 & 8 Change	R	R	R′	R	R	R	Y	Y	Y	Y	Y	Y	DW	+
Phase Alt 4 & Alt 8	R	R	R	R	R	R	G	G	G	G	G	G	WK	• •
Ped Clearance	R	R	R	R	R	R	G	G	G	G	G	G	FL/DW]
Alt 4 & Alt 8 Change	R	R	R	R	R	R	Y	Y	Y	Y	Υ	Y	DW	
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	+ 4





MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION

(General Information Plan)

MD 528 (Coastal Hwy) at 67th Street

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DRAWN BY: J. Dirndorfer	F.A.P. NO.	N/A	TS NO.		Ş
CHECKED BY: M. Rucker	S.H.A. NO.	BW996M82	4296 GI	SHEET NO.	25,
SCALE: N/A	COUNTY:	Worcester	T.I.M.S. NO.		/200
DATE: January 23, 2004	LOG MILE:	23052804.42	G029	2OF2_	4